

**CLAIMS**

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1. Sample receiving device (100), particularly for the cryoconservation of at least one sample, comprising:

- a bundle (10) from a plurality of hose-shaped flexible sample chambers (11, 12, ...), and

10 - a holding device (20), with which the bundle (10) of the sample chambers is joined,

**characterized** in that

- the holding device (20) has a plurality of holding frames (21, 22, ...), which are arranged in a longitudi-

15 nal direction of the bundle (10).

2. Sample receiving device according to claim 1, wherein the holding frames (21, 22, ...) form plane level carriers, on which the sample chambers (11, 12, ...)

20 ... are arranged side by side.

3. Sample receiving device according to claim 1 or 2, wherein the holding frames (21, 22, ...) establish a rectangular form.

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4. Sample receiving device according to at least one of the preceding claims, wherein distances are formed between the holding frames (21, 22, ...).

30 5. Sample receiving device according to claim 4, wherein the distances are larger than 1-times the thickness of the holding frames.

6. Sample receiving device according to one of the claims 1 to 3 wherein the holding frames (21, 22, ...) are arranged in flush to one another and adjacent in the longitudinal direction of the bundle (10).

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7. Sample receiving device according to at least one of the claims 4 to 6, wherein the holding frames (21, 22, ...) form a stack (30).

10 8. Sample receiving device according to claim 7, wherein the holding frames (21, 22, ...) are held together in the stack (30) by means of a clamping device.

9. Sample receiving device according to at least one  
15 of the preceding claims, wherein at least one of the holding frames (21, 22, ...) has an integrated data storage unit.

10. Sample receiving device according to claim 9,  
20 wherein all holding frames (21, 22, ...) each have an integrated data storage unit.

11. Sample receiving device according to at least one of the preceding claims, wherein at least one data storage device (50) is provided along the longitudinal direction of the bundle (10) of the sample chambers (11, 12, ...) between at least two holding frames.

12. Sample receiving device according to at least one  
30 of the preceding claims, wherein the sample chambers (11, 12, ...) have a rectangular cross-section.

13. Sample receiving device according to claim 12, wherein all sample chambers are secured to the holding

frames (21, 22, ...) in such a way that, in each case, a plane level lateral surface of the sample chambers is aligned parallel to the plane level expansion of the holding frames.

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14. Sample receiving device according to at least one of the preceding claims 1 to 11, wherein the sample chambers have a cross-section which changes along the length of the sample chambers.

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15. Sample receiving device according to claim 14, wherein the cross-section of the sample chambers periodically changes.

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16. Sample receiving device according to at least one of the preceding claims, wherein the sample chambers (11, 12, ...) are subdivided along their length by means of at least one chamber wall (70) in at least two partial chambers (11a, 11b, 12a, 12b, ...).

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17. Sample receiving device according to claim 16, wherein the chamber wall (70) has pores or is a dialysis membrane.

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18. Process for the manufacture of a sample receiving device according to at least one of the preceding claims, with the steps:

- provision or forming of the sample chambers (11, 12, ...)

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- forming of the bundle (10) of the sample chambers (11, 12, ...) and

- attachment of the holding frames (21, 22, ...) in the longitudinal direction of the bundle (10).

19. Process according to claim 18, wherein the provision of the sample chambers (11, 12, ...) comprises an uncoiling of delivery rollers (211).
- 5 20. Process according to claim 19, wherein the forming of the bundle (10) of the sample chambers (11, 12, ...) comprises a simultaneous drawing of the sample chambers (11, 12, ...) from the delivery rollers (211).
- 10 21. Process according to claim 18, wherein the forming of the sample chambers (11, 12, ...) comprises a parallel extrusion of hoses.
22. Process according to at least one of the claims 18  
15 to 21, wherein the holding frames are attached to the sample chambers (11, 12, ...) by means of an injection molding process or a clamping process.
23. Process according to at least one of the claims 18  
20 to 22, with the further step of coiling-up of the compound consisting of sample chambers and holding frames.